

PHYSIOLOGICAL ARRANGEMENT
OF THE
CRANIAL NERVES

By Edward Rives, M. D.

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PHYSIOLOGICAL ARRANGEMENT OF CRANIAL NERVES.

| NERVES OF SPECIAL SENSE. | | ORIGIN. | EXIT. | DISTRIBUTION. |
|--------------------------|-----|---|---------------------------------|--|
| OLFACTORY | 1st | <i>External or Long Root</i> —Corpus Striatum—Optic Thalamus—Anterior Commissure—Island Reil <i>Middle or Gray Root</i> —Caruncula Mammillaris of Anterior Lobe <i>Internal or Short Root</i> —Inner and Back Part of Anterior Lobe | Cribiform plate of Ethmoid bone | Nasal Mucous Membrane. |
| OPTIC | 2nd | | Optic foramen | Forms the Retina by Expansion. |
| AUDITORY | 7th | | Meatus Auditorius internus | Forms the nervous expansion in the Cochlea, Vestibule & Semicircular Canals. |
| MOTOR NERVES. | | | | |
| MOTOR OCULI COMMUNIS | 3rd | Crus Cerebri (Locus Niger) | Sphenoidal fissure | Levator Palpebræ Superioris, & all muscles of Eyeball except Sup. Oblique & External Rectus. |
| PATHETICUS | 4th | Valve of Vieussens (upper part) | Sphenoidal fissure | Superior Oblique muscle of Eye. |
| MOTOR OCULI EXTERNUS | 6th | Floor of 4th Ventricle (from a gray nucleus) | Sphenoidal fissure | External Rectus muscle of Eye. |
| SMALL ROOT OF 5th PAIR | 5th | Anterior Pyramids (upper part) | Foramen Ovale | Temporal, Masseter, Digastric, Internal & External Pterygoid muscles. |
| FACIAL | 7th | Lateral tract of Medulla Oblongata between Olivary & Restiform bodies | Meatus Auditorius Internus | Muscles of Face, External Ear, Buccinator, Stapedius & Laxator Tympani muscles. |
| HYPOGLOSSAL | 9th | Groove between Pyramidal and Olivary bodies by 10 or 15 filaments | Anterior Condylod foramen | Muscles of Tongue. |
| SPINAL ACCESSORY | 8th | Lateral tract of Cord as low down as the 6th Cervical Vertebra | Jugular foramen | Sterno Cleido Mastoid, & Trapezius muscles & sends branches to the Cervical [plexus. |
| SENSITIVE NERVES. | | | | |
| LARGE ROOT OF 5th PAIR | 5th | Lateral tract Medulla behind the Olivary body | Opthalmic—Sphenoidal fissure | Eyeball—Lachrymal gland—Mucous lining of eye & nose—Integument & muscles of eyebrow & forehead. |
| | | | Sup. Maxillary—Foramen Rotundum | Side of nose—Lower eyelid—Upper lip—Teeth & gums of upper jaw—Integument of temple & side of forehead. |
| | | | Inf. Maxillary—Foramen Ovale | Teeth & gums of lower jaw—Integument & muscles of external ear—Lower part of face & upper lip—Tongue and muscles of mastication. |
| GLOSSO-PHARYNGEAL | 8th | Nucleus of Gray matter at lower part of floor of 4th Ventricle | Jugular foramen | Tongue and Pharynx. |
| PNEUMOGASTRIC | 8th | Lateral tract of Medulla behind Olivary body | Jugular foramen | Larynx—Pharynx—Æsophagus—Lungs—Stomach—Heart. |

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